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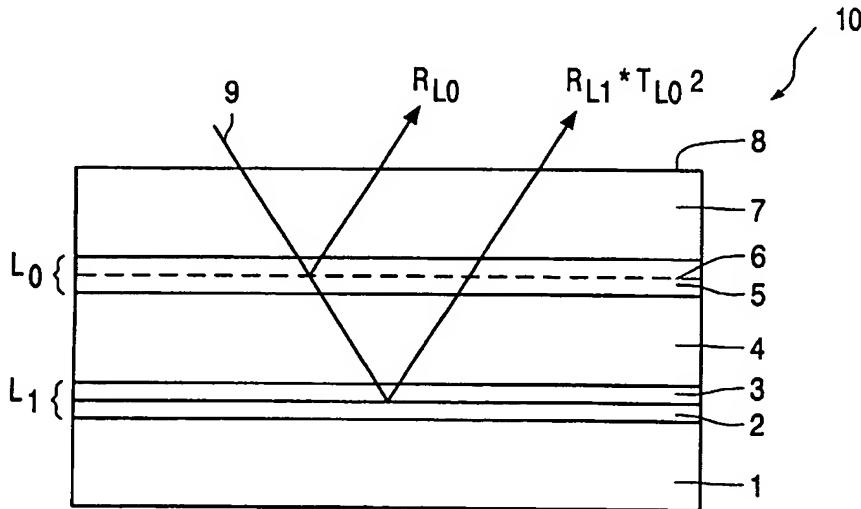
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(54) Title: OPTICAL DATA STORAGE MEDIUM FOR WRITE ONCE RECORDING



(57) Abstract: A dual-stack optical data storage medium (10) for write-once recording using a focused radiation beam (9) entering through an entrance face (8) of the medium is described. The medium comprises at least one substrate (1, 7) with present on a side thereof a first recording stack (2) named L₀, comprising a write-once type L₀ recording layer (3) with an absorption k_{L0} and a second recording stack (5) named L₁ comprising a write-once type L₁ recording layer (6) with an absorption k_{L1}. The first recording stack L₀ has an optical reflection value R_{L0} and an optical transmission value T_{L0} and the second recording stack has an optical reflection value R_{L1}. The first recording stack is present at a position closer to the entrance face (8) than the second recording stack. When the following conditions are fulfilled: 0.45 = T_{L0} = 0.75 and 0.40 = R_{L1} = 0.80 and k_{L0} < 0.3 and k_{L1} < 0.3 a dual stack write-once medium is achieved which can be played in a standard DVD-ROM player. Several stack designs are described fulfilling the above conditions.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 118 987 A (SONY CORP) 25 July 2001 (2001-07-25)	1-3
A	column 1, line 25 -column 3, line 33; figures 1-5 column 7, line 18 -column 8, line 39 ----	4-20
Y	US 6 226 239 B1 (NISHIUCHI KENICHI ET AL) 1 May 2001 (2001-05-01)	1-3
A	column 13, line 56 -column 18, line 41 column 41, line 28 -column 42, line 19; figures 1,5 ----	4-20
Y	US 5 627 817 A (ROSEN HAL J ET AL) 6 May 1997 (1997-05-06)	1-3
A	column 4, line 44 -column 10, line 17; figures 1-6 ----	4-20
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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